

1. A piston-cam engine, which includes:
 - a drive cylinder;
 - a drive piston operably disposed within said cylinder having a piston head and a shaft;
 - 5 a support frame having a generally cylindrical bearing surface;
 - a drive shaft rotatably movably received within said cylindrical bearing surface;
 - a cam having a peripheral surface and having a plurality of lobes thereon;
 - a roller member connected to said piston shaft and adapted for engagement with said peripheral surface of said cam; and
 - 10 biasing means for biasing said roller member continuously against said peripheral surface of said cam.
2. The piston-cam engine of claim 1, which includes a support drive plate interconnecting said piston shaft and said roller member.
3. The piston-cam engine of claim 2, which further includes a first slave cylinder
15 adjacent said drive cylinder and has a first slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.
4. The piston-cam engine of claim 3, which further includes a second slave cylinder
20 adjacent said drive cylinder and has a second slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said second slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

5. A piston-cam engine, which includes:

a drive cylinder;

a drive piston operably disposed within said cylinder having a piston head and a shaft;

5 a support frame having a generally cylindrical bearing surface;

a drive shaft rotatably movably received within said cylindrical bearing surface;

a cam having a peripheral surface and having a plurality of lobes thereon;

a roller member connected to said piston shaft and adapted for engagement with said peripheral surface of said cam;

10 a support drive plate interconnecting said piston shaft and said roller member; and

a first slave cylinder adjacent said drive cylinder and has a first slave piston

operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

15 6. The piston-cam engine of claim 5, which further includes a second slave cylinder adjacent said drive cylinder and has a second slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said second slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

20 7. The piston-cam engine of claim 5, biasing means for biasing said roller member continuously against said peripheral surface of said cam.

8. The piston-cam engine of claim 6, biasing means for biasing said roller member continuously against said peripheral surface of said cam.